

CLAIMS

- 1.- An explosion or internal combustion rotary engine, of the type structured by means of a cylindrical rotor with radial housings for a plurality of blades defining chambers in a tubular stator, of generally cylindrical inner configuration, which is closed by means of end covers, characterized in that the stator (1) includes an inner wall (17) of elliptical section, while the rotor (7) includes eight radial blades (9) properly interrelated such that the retraction movement of part of them is combined with the ejection movement of the others in order for the mechanical relationship existing between them to determine that the same are kept in permanent contact with the inner wall (17) of the stator (1).
- 2.- An explosion or internal combustion rotary engine according to claim 1, characterized in that said blades (9) include, in correspondence with their lower apexes, respective shafts (15) to which pairs of articulated connecting rods (16) are hingedly joined, with the special characteristic that four articulated connecting rods (16) are hingedly joined to four blades (9) at each end of the engine, configuring an articulated parallelogram, while another four blades (9) are hingedly joined to the other four blades, configuring a second articulated parallelogram, and such that these two parallelograms are angularly offset, each one of them affecting four blades in alternate arrangement with respect to the other four.
- 3.- An explosion or internal combustion rotary engine according to previous claims, characterized in that each blade (9) includes its recessed outer edge (10), configuring a groove as a channel in which a segment (11) is coupled with freedom of movement, which constitutes a bridge of union between the blade (9) and the wall (17) of the stator (1) and which adopts a configuration as an approximately cylindrical segment, each segment (11) overlapping on its ends another two segments (11') coupled in rectangular channels (12) of the ends of the blade (9).
- 4.- An explosion or internal combustion rotary engine according to previous claims, characterized in that said articulated connecting rods (16) are located in a pair of chambers established between the ends of rotor (7) and the covers (2) closing the tubular body (1) constituting the stator.
- 5.- An explosion or internal combustion rotary engine according to previous claims, characterized in that its covers (2) each include, at the level of the housing (22) of the stator for the spark plug, small recesses (23) communicating the chambers adjacent to each blade (9) when the latter passes by the spark plug.